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### NOTICE OF ALLOWANCE AND FEE(S) DUE

26694

7500

04/15/2009

VENABLE LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998

EXAMINER				
LEE, BENNY T				
ART UNIT	PAPER NUMBER			
2817				

DATE MAILED: 04/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,396	01/13/2006	Jae-Hoon Tae	31656-227294	1487

TITLE OF INVENTION: PHASE SHIFTER HAVING POWER DIVIDING FUNCTION FOR PROVIDING A FIXED PHASE SHIFT AND AT LEAST

TWO PHASE SHIFTS BASED ON PATH LENGTH

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notification	correspondence includir ed below or directed oth tions.	ng the Patent, advance of nerwise in Block 1, by (a					correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address			I	Fee(s)	) Transmittal. This ce s. Each additional pa	ertificate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must
26694	7590 04/15	72009			Certific	rate of Mailing or Trans	mission
VENABLE LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998			I S a t	I here States addre transr	by certify that this F Postal Service with ssed to the Mail St	ee(s) Transmittal is being sufficient postage for firs op ISSUE FEE address (571) 273-2885, on the d	deposited with the United t class mail in an envelope above, or being facsimile
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	FOR	AT	TORNEY DOCKET NO.	CONFIRMATION NO.
10/564,396	01/13/2006	•	Jae-Hoon Tae			31656-227294	1487
TITLE OF INVENTION TWO PHASE SHIFTS B			ING FUNCTION FOR	PRC	OVIDING A FIXED	PHASE SHIFT AND A	ΓLEAST
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	UE :	PREV. PAID ISSUE FE	E TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300		\$0	\$1055	07/15/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
LEE, BE	ENNY T	2817	333-156000	_			
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Comp	A TO BE PRINTED ON ' ified below, no assignee oletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (Cl	e pat an as	ent. If an assignee i ssignment. and STATE OR COU	NTRY)	ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	<b>□</b> I	Individual	ration or other private gro	oup entity Government
4a. The following fee(s) are submitted:  Issue Fee  Publication Fee (No small entity discount permitted)  Advance Order - # of Copies			attached. he required fee(s), any de	·			
	s SMALL ENTITY state	ıs. See 37 CFR 1.27.	==			ENTITY status. See 37 CI	·=· · · ·
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other that Office.	an the	e applicant; a register	ed attorney or agent; or th	e assignee or other party in
Authorized Signature	Authorized Signature Date						
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS	or ret s estir ndivid fficer, S TO	tain a benefit by the p mated to take 12 min dual case. Any comm , U.S. Patent and Tra THIS ADDRESS. SI	oublic which is to file (and tes to complete, including tents on the amount of tind demark Office, U.S. Dept END TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

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10/564,396	01/13/2006	Jae-Hoon Tae	31656-227294	1487
26694 75	590 04/15/2009		EXAM	INER
VENABLE LLP			LEE, BE	ENNY T
P.O. BOX 34385			ART UNIT	PAPER NUMBER
WASHINGTON, I	DC 20043-9998		2817	
			DATE MAILED: 04/15/200	9

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 193 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 193 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/564,396	TAE ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Benny Lee	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. This communication is responsive to the amendment filed 16 January 2009.						
<ul> <li>2.  The allowed claim(s) is/are 1-9,25-30; 10-12; 13-17; 18-23.</li> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> </ul>						
a)  All b)  Some* c)  None of the:	ider 33 0.3.C. § 119(a)-(d) 01 (1).					
1. Certified copies of the priority documents have	been received.					
2. ☐ Certified copies of the priority documents have		·				
3. ☑ Copies of the certified copies of the priority do	cuments have been received in this i	national stage application from the				
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	et be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or in the C	office action of				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application				
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary Paper No./Mail Dat	(PTO-413),				
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ⊠ Examiner's Amendn					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	ent of Reasons for Allowance				
	9.  Other					